



UTM

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FACULTY OF COMPUTING
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BACHELOR OF COMPUTER SCIENCE (BIOINFORMATICS)

SECB3203 PROGRAMMING FOR BIOINFORMATICS - SECTION 01

**PROJECT
ALZHEIMER'S DISEASE PREDICTION**

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Table of Contents

2.3 Software and Hardware Requirements.....	3
2.3.1 Software Tools.....	3
2.3.2 Hardware Specifications.....	3
3.0 Flowchart of the Proposed Approach.....	3

2.3 Software and Hardware Requirements

2.3.1 Software Tools

- Visual Studio Code
 - Integrated Development Environment (IDE) for script development and project organization
- Python
 - Programming language used for data preprocessing, analysis, and machine learning model development.
- Jupyter Notebook
 - Environment for code execution, data visualization, and reproducibility of experiments.
- Python libraries
 - Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn for data manipulation, visualization, and machine learning tasks

2.3.2 Hardware Specifications

- Computer
 - System type: 64-bit operating system
 - Processor: 11th Gen Intel(R) Core(TM) i5-11300H @ 3.10GHz
 - Memory (RAM): 8GB, sufficient for handling datasets and training classical machine learning models
 - Storage: 476GB, adequate for storing datasets, model parameters, and project files

3.0 Flowchart of the Proposed Approach

